Title (en)
SYSTEM FOR DETECTING A TOUCH GESTURE OF A USER, DEVICE COMPRISING THE SYSTEM, AND METHOD

Title (de)
SYSTEM ZUR ERKENNUNG EINER BERÜHRUNGSGESTE EINES BENUTZERS, VORRICHTUNG MIT DEM SYSTEM UND VERFAHREN

Title (fr)
SYSTÈME DE DÉTECTION D'UN GESTE TACTILE D'UN UTILISATEUR, DISPOSITIF COMPRENANT LE SYSTÈME ET PROCÉDÉ

Publication
EP 4394552 A2 20240703 (EN)

Application
EP 24176237 A 20220407

Priority
• IT 202100008897 A 20210409
• EP 22167231 A 20220407

Abstract (en)
System (1) for detecting a touch gesture of a user on a detection surface (102), comprising: a processing unit (2); and an accelerometer (4) to detect a vibration at the detection surface and generate a vibration signal (S_{acc_raw}). The processing unit is configured to: acquire the vibration signal, detect, in the vibration signal, a signal characteristic (p1, p2) which can be correlated to the touch gesture of the user, detect, in the vibration signal, a stationarity condition preceding and/or following the detected signal characteristic, and validate the touch gesture in the event that both the signal characteristic and the stationarity condition have been detected. An electrostatic charge sensor (6) may also be used as a further parameter to validate the touch gesture.

IPC 8 full level
G06F 1/16 (2006.01)

CPC (source: CN EP US)
G06F 1/1684 (2013.01 - EP); **G06F 1/1694** (2013.01 - EP); **G06F 3/017** (2013.01 - US); **G06F 3/0346** (2013.01 - CN); **G06F 3/04166** (2019.05 - US); **G06F 3/0418** (2013.01 - US); **G06F 3/043** (2013.01 - US); **G06F 3/0488** (2013.01 - EP); **G06F 3/04883** (2013.01 - EP); **H03K 17/96** (2013.01 - EP); G06F 3/044 (2013.01 - US); G06F 2200/1636 (2013.01 - EP); G06F 2203/04106 (2013.01 - EP)

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